

Title (en)  
NDFEB-BASED SINTERED MAGNET

Title (de)  
SINTERMAGNET AUF NDFEB-BASIS

Title (fr)  
AIMANT FRITTÉ À BASE DE NDFEB

Publication  
**EP 2889883 A4 20151007 (EN)**

Application  
**EP 13833670 A 20130827**

Priority  
• JP 2012186584 A 20120827  
• JP 2013072842 W 20130827

Abstract (en)  
[origin: EP2889883A1] The present invention aims to provide a NdFeB system sintered magnet capable of improving the magnetization characteristic. The NdFeB system sintered magnet according to the present invention is a NdFeB system sintered magnet with the c axis oriented in one direction, characterized in that: the median of the grain size of the crystal grains at a section perpendicular to the c axis is 4.5  $\mu\text{m}$  or less, and the area ratio of the crystal grains having grain sizes of 1.8  $\mu\text{m}$  or smaller on the aforementioned section is 5 % or lower. The median of the grain size is decreased (to 4.5  $\mu\text{m}$  or less), whereby improve the coercive force is improved. Simultaneously, the area ratio of the crystal grains having grain sizes of 1.8  $\mu\text{m}$  or smaller is decreased (to 5 % or lower) to reduce the number of crystal grains having no magnetic wall formed, whereby the magnetization characteristic is improved.

IPC 8 full level  
**C22C 38/00** (2006.01); **H01F 1/057** (2006.01); **H01F 1/08** (2006.01); **H01F 41/02** (2006.01)

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**C22C 38/00** (2013.01 - KR); **C22C 38/002** (2013.01 - EP KR US); **C22C 38/005** (2013.01 - EP KR US); **C22C 38/06** (2013.01 - EP KR US); **C22C 38/10** (2013.01 - EP KR US); **C22C 38/16** (2013.01 - EP KR US); **H01F 1/057** (2013.01 - KR); **H01F 1/0577** (2013.01 - EP US); **H01F 1/08** (2013.01 - KR); **H01F 1/086** (2013.01 - US); **H01F 41/02** (2013.01 - KR); **H01F 41/0293** (2013.01 - EP US)

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DOCDB simple family (publication)  
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